## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/016581

		PCT/JPZ	004/016581
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> H01M4/02, H01M4/38, H01M4/04, H01M4/64, H01M2/26			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) Int.Cl <sup>7</sup> H01M4/02, H01M4/38, H01M4/04, H01M4/64, H01M2/26			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
Y A	JP 8-50922 A (Canon Inc.), 20 February, 1996 (20.02.96), Claims; Par Nos. [0038], [0041], [0050] to [0059], [0131]; Fig. 3 & EP 690517 A1 & US 6051340 A1		1-4,6-9, 11-13,15 5 10,14,16-18
X A	JP 2002-289178 A (Sanyo Electric Co., Ltd.), 04 October, 2002 (04.10.02), Claims & US 2002-168572 A1		1,2,15 3-14,16-18
Y	JP 2003-208889 A (Matsushita Industrial Co., Ltd.), 25 July, 2003 (25.07.03), Claims; Par Nos. [0010] to [0 (Family: none)		5
Further documents are listed in the continuation of Box C.  See patent family annex.			
Special categories of cited documents:     document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
"O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family	
Date of the actual completion of the international search 16 December, 2004 (16.12.04)		Date of mailing of the international search report 11 January, 2005 (11.01.05)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	,